國立臺北科技大學 100 學年度碩士班招生考試

系所組別:4410 服務與科技管理研究所甲組

第三節 經濟學 試題

第一頁 共一頁

注意事項:

- 1. 本試題共六題,配分共100分。
- 2. 請標明大題、子題編號作答,不必抄題。
- 3. 全部答案均須在答案卷之答案欄內作答,否則不予計分。
- (1)(10%) Explain Schumpeter Mark I and Mark II.
- (2)(15%) Is tight oligopoly likely to develop heavy selling expenses? Explain your answer.
- (3)(15%) Suppose that the Central Bank is required to keep the inflation rate between 1 percent and 2 percent a year but with no requirement to keep trend inflation at the midpoint of this range. The Central Bank achieves its target. If initially the price level is 100,
 - (a)(8%) What is the range of uncertainty about the price level after 10 years?
 - (b)(7%) Would this type of inflation goal serve the financial markets well and provide an anchor for inflation expectations?
- (4)(20%) Suppose that in Country X, investment is \$400 billion, saving is \$400 billion, tax revenues are \$500 billion, exports are \$300 billion, and imports are \$200 billion.
 - (a)(5%) Calculate government expenditure.
 - (b)(5%) What is the government budget balance?
 - (c)(2%) Is the government exerting a positive or negative impact on investment?
 - (d)(8%) What fiscal policy action might increase investment and speed economic growth? Explain how the policy action would work.
- (5)(20%) Company A's constant marginal cost of producing its electronic product is \$200, its fixed cost is \$744 million, and its inverse demand function is p=600-25Q, where Q is units measured in millions. Assuming that Company A is maximizing short-run monopoly profit,
 - (a)(9%) What are its profit-maximizing price, quantity, and profit?

- (b)(6%) What is its Lerner Index?
- (c)(5%) What is the elasticity of demand at the profit-maximizing level?
- (6)(20%) Consider a game with two players, who cannot communicate, and in which each player is asked a question. The players can answer the question honestly or lie. If both answer honestly, each receives \$100. If one answers honestly and the other lies, the liar receives \$500 and the honest player gets nothing. If both lie, then each receives \$50.
 - (a)(5%) Describe the strategies and payoffs of this game.
 - (b)(5%) Construct the payoff matrix.
 - (c)(5%) What is the equilibrium of this game?
 - (d)(5%) Compare this game to the prisoners' dilemma. Are the two games similar or different? Explain your answer.